



E310TECH

### Technical Instructions

### Printers / OEM Info

### Tools

1

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#### Xerox Work Center 390

Toner Part Num.: 113R462  
Page Yield @ 5%: 3,000 pgs  
Resolution: 6,000 dpi

#### Xerox Docuprint

#### P8E/P8EX/WC385

Toner Part Num.: 13R00296  
Page Yield @ 5%: 5,000 pgs  
Resolution: 1,200 dpi

#### Lexmark Optra E310/E312/E312L

Toner Part Num: 13T0301  
Page Yield @ 5%: 3,000 pgs  
Resolution: 1,200 dpi

Toner Part Num: 13T10  
Page Yield @ 5%: 6,000 pgs  
Resolution: 1,200 dpi

#1 Phillips Screwdriver  
Small Flat Blade Screwdriver  
Needlenose Pliers  
Soft Lint-Free Cloth  
Cotton Swabs  
Anhydrous Isopropyl Alcohol  
Vacuum or Compressed Air

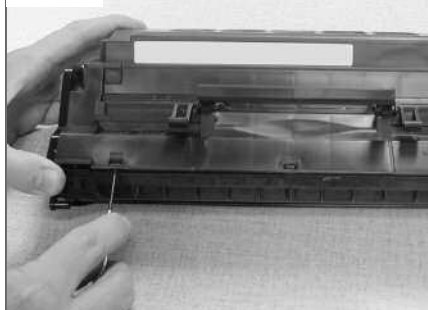
Photo 1



#### Step 1

Using a Phillips screwdriver remove the two screws from the top of the cartridge.  
(See Photo 1)

Photo 2



#### Step 2

With a small flat blade screwdriver release the three clips located on the front of the cartridge under the handle.  
(See Photo 2)

Photo 3



#### Step 3

To separate the two sections, lift up on the front of the toner hopper. Be careful when separating the two sections, toner will spill out of the toner hopper.  
(See Photo 3)

**NOTE:** Do not break off the clips on the back of the hopper.

## Notes

Photo 4

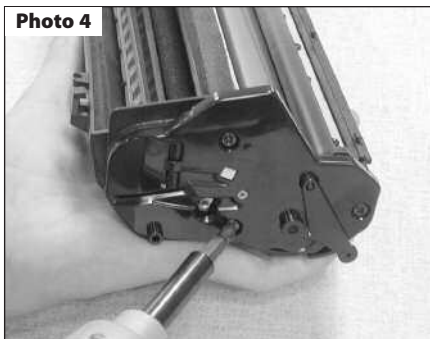


Photo 5



Photo 6

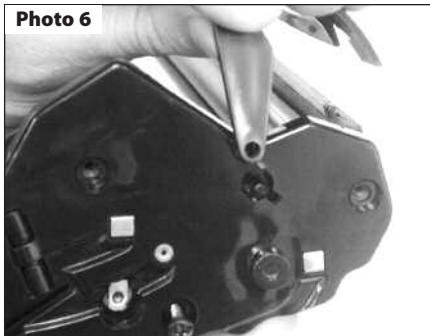


Photo 7

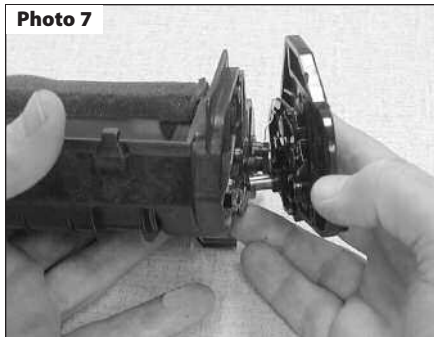


Photo 8

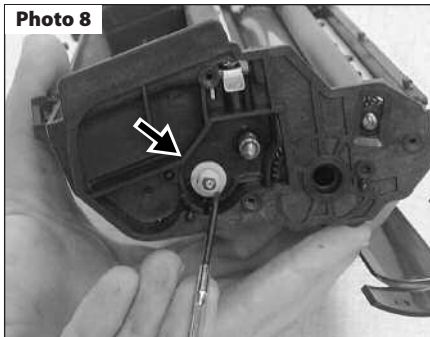
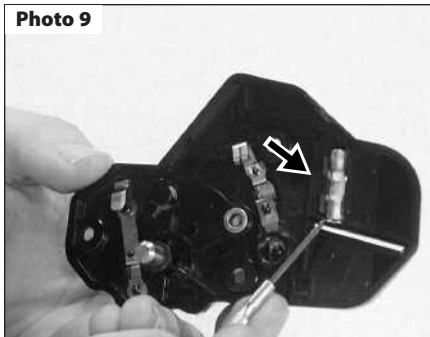


Photo 9



### Step 4

Using dry compressed air or a vacuum, clean out both sections of the cartridge.

### Step 5

Remove the three screws holding the end caps on each side of the cartridge.

(See Photos 4 and 5)

### Step 6

Remove the drum shutter arm from the contact end cap, rotate the drum shutter up towards the handle on the cartridge until the tab on the shutter fits through the notch on the end cap. (See Photo 6)

**NOTE:** Let the shutter dangle; Do not remove the shutter from the other end cap.

### Step 7

Pull the contact end cap from the side of the cartridge.

(See Photo 7)

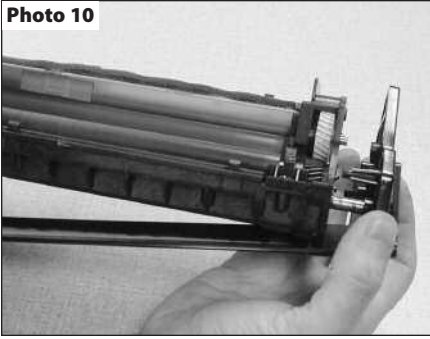
**NOTE:** Do not lose the white bearing that fits on the foam feed roller axle

(See Photo 8)

### Step 8

Located ONLY on the contact end cap of the fax cartridge is a blown 100m fuse. This fuse must be replaced each time this cartridge is recycled. Replace the fuse.

(See Photo 9)

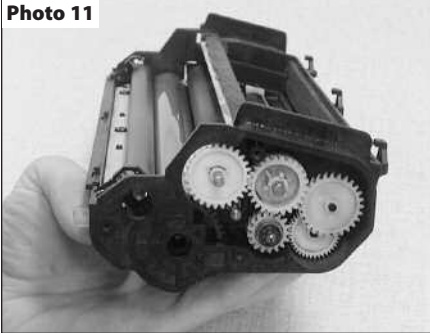
**Photo 10**

### Step 9

With the drum shutter still attached, remove the end cap from the gear side of the hopper.

(See Photo 10)

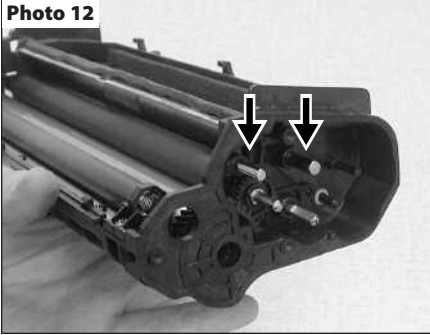
**NOTE:** Once again there is a white bearing on the foam feed roller axle. Do not lose the bearing.

**Photo 11**

### Step 10

Photo 11 shows the gear alignment of the hopper. Remove the five white gears from the hopper.

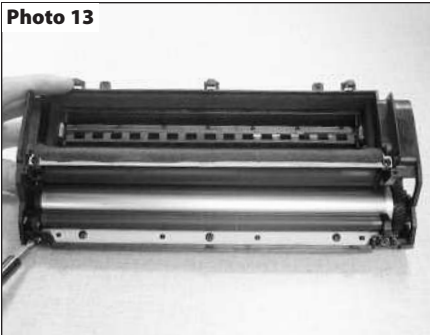
(See Photo 11)

**Photo 12**

### Step 11

Remove the two metal gear axles from the gear side of the hopper.

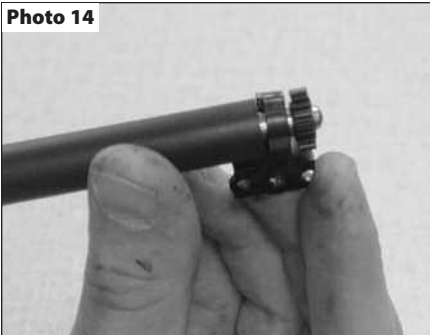
(See Photo 12)

**Photo 13**

## Step 12

On each end of the PCR there is a screw that holds the PCR saddles in place, remove the two screws.

(See Photo 13)

**Photo 14**

### Step 13

Lift out the PCR. **NOTE:** Do not lose the gear that fits on the end of the PCR.

(See Photo 14)

Clean the PCR using a PCR cleaner.

## Notes

[illegible]

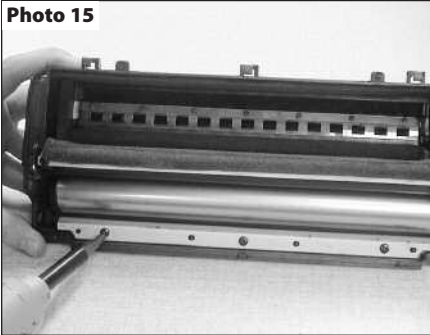
*Need help with a particular remanufacturing problem?*

**Call the Technical Resource Center from  
8am - 5pm PST: 800 394.9900**

**Step 14**

Remove the three screws that hold the wiper blade.

(See Photo 15)

**Photo 15****Step 15**

Lift out the wiper blade straight up to remove.

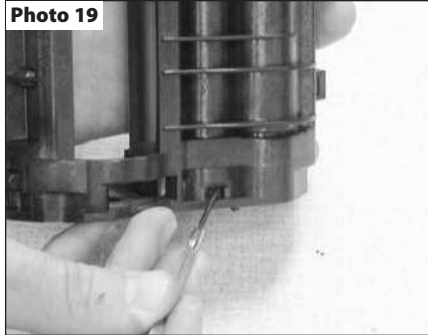
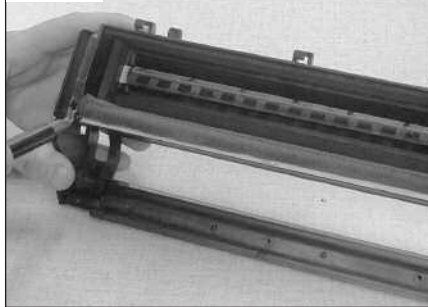
**Step 16**

Grab the drum by the gears and lift the drum out of the hopper. Clean the drum using a lint free cloth. (See Photo 16)

**Photo 16****Step 17**

Remove the black gear from the developer roller axle.

(See Photo 17)

**Photo 18****Photo 19****Photo 20****Photo 21****Photo 17****Step 18**

Release the two clips that hold the developer roller end cap.

(See Photo 18 and 19)

Remove the end cap.

**Step 19**

Slide the developer roller out through the side of the hopper.

(See Photo 20)

Clean the developer roller using a dry lint-free cloth.

**Step 20**

Remove the two screws that hold the doctor blade.

(See Photo 21)

**Step 21**

Lift the doctor blade up. It may be necessary to remove the small foam strips that are connected to the back of the doctor blade. Clean the doctor blade using alcohol and a cotton swab.

**Step 22**

Apply a seal to the toner hopper.

**Step 23**

Reassemble in reverse order.

**FUTURE**  
GRAPHICS

# Lexmark Optra E210

ENGINE FACT SHEET



## PRINTER MODEL COMPATIBILITY

### PRINTER MODEL

Lexmark E210  
Samsung ML-1010  
Samsung ML-1020M  
Samsung ML-1210  
Samsung ML-1220M  
Samsung ML-1250  
Samsung ML-1430  
Samsung ML-4500  
Samsung ML-4600

### OEM NUMBER

10S0150  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML4500D3  
ML4500D3

## FUTURE GRAPHICS PRODUCT LISTING

Product	Description	Item Number	Pack Qty.
Drum	Sinonar	E210SNR	5/100
Technical Guide	Cartridge Remanufacturing Instructions - Lexmark E210	E210TECH	1
Toner	65gm Bottle	E210TNR65	10



**FUTURE**  
GRAPHICS

# Lexmark Optra E310

ENGINE FACT SHEET



## PRINTER MODEL COMPATIBILITY

### PRINTER MODEL

Lexmark Optra E310  
Lexmark Optra E312  
Lexmark Optra E312L  
Olivetti PGL 8L  
Samsung ML-5000A  
Samsung ML-5000G  
Samsung ML-5050G  
Samsung ML-5100A  
Xerox Docuprint P8e  
Xerox Docuprint P8ex  
Xerox WorkCentre 385  
Xerox WorkCentre 390

### OEM NUMBER

10S0150  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML1210D3  
ML4500D3  
ML4500D3  
113R296  
113R296  
113R462

## FUTURE GRAPHICS PRODUCT LISTING

Product	Description	Item Number	Pack Qty.
Cartridge Box	Two-Color Self-Adhesive	ML5000LABEL	100
Cartridge Tech Guide	Remanufacturing Instructions	ML5000TECH	1
Developer Roller		ML5000DVRROL	10
Docotr Blade	Doctor Bar With Sponge	ML5000DRBLADEG	10
Cartridge Tech Guide	AEG	ML5000AEG	5/60
Drum		ML5000DRUMG	5/50
Fuse	Drum Unit Reset Fuse, Fax	ML5000FUSED	10
PCR	For Printer (Not for Fax) , New, Onyx	ML5000PCR	10
Seal	Adhesive Goldseal	ML5000GOLDSEAL	50
Seal	Adhesive Onyx, Reinforced	ML5000SEALONYXR	50
Toner	Bulk Bag, 22 lb Per-Fil - Box of 1, Sold per box	ML500010KG	1
Toner	160gm Bottle	ML5000TNR160	10
Wiper Blade		ML5000WBLADEG	10/200